CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/AM/CSR-11/203c/CEMENT/2016-17 Date: 26.11.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. A. Manjunath,** # 111, Pilakamma Temple Street, Amruthahalli, Sahakarnagar Post, Bangalore - 92.
*NAME OF THE WORK	:	Providing concrete road in Amruthahalli SC Colony in 5th and 6th Crosses in Ward No. 07, (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/EE/BTP/WO/78/2016-17 Dated: 03.08.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	25.11.2016
PERIOD OF TESTING	:	25.11.2016 to 26.11.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50%	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	430 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VIDYARANI P.K.
Technical Manager

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T-2377

Job No.: CTCE/BBMP/AM/CSR-11/203c/SAND-Gradation/2016-17 : 26.11.2016

TEST REPORT ON DETERMINATION GRADATION OF MANUFACTURED SAND

* Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. A. Manjunath,**
# 111, Pilakamma Temple Street, Amruthahalli, Sahakarnagar Post, Bangalore - 92.

* Name of Work : Providing concrete road in Amruthahalli SC Colony in 5th and 6th Crosses in Ward No. 07, (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/78/2016-17 Dated: 03.08.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Manufactured Sand

Sample Received on : 25.11.2016

Date of Testing : 26.11.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.41	90-100	90-100	90-100	95-100
2.36	78.84	60-95	75-100	85-100	95-100
1.18	59.59	30-70	55-90	75-100	90-100
600 Micron	41.31	15-34	35-59	60-79	80-100
300 Micron	17.89	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/AM/CSR-11/203c/AGG/GR/2016-17 : 26.11.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Manjunath,** # 111, Pilakamma Temple Street, Amruthahalli, Sahakarnagar Post, Bangalore - 92.
* Name of Work	: Providing concrete road in Amruthahalli SC Colony in 5th and 6th Crosses in Ward No. 07, (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/78/2016-17 Dated: 03.08.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 25.11.2016
Date of Testing	: 26.11.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.36	95-100	85-100
20	32.04	30-70	0-20
10	11.56	10-35	0-5
4.75	1.92	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/AM/CSR-11/203c/CUBE/2016-17 25.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Manjunath,** # 111, Pilakamma Temple Street, Amruthahalli, Sahakarnagar Post, Bangalore - 92.
* Name of the work	: Providing concrete road in Amruthahalli SC Colony in 5th and 6th Crosses in Ward No. 07, (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/78/2016-17 Dated: 03.08.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 25.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.11.2016	25.12.2016	8.098	473.8	21.06
2	27.11.2016	25.12.2016	8.153	490.7	21.81
3	27.11.2016	25.12.2016	8.246	507.4	22.55

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Job No.: CTCE/BBMP/AM/CSR-11/203c/CUBE/2016-17 25.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Manjunath,** # 111, Pilakamma Temple Street, Amruthahalli, Sahakarnagar Post, Bangalore - 92.
* Name of the work	: Providing concrete road in Amruthahalli SC Colony in 5th and 6th Crosses in Ward No. 07, (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/78/2016-17 Dated: 03.08.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 25.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.11.2016	25.12.2016	8.218	479.5	21.31
2	27.11.2016	25.12.2016	8.321	494.5	21.98
3	27.11.2016	25.12.2016	8.436	513.4	22.82

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* Agency	: **Mr. A. Manjunath,** # 111, Pilakamma Temple Street, Amruthahalli, Sahakarnagar Post, Bangalore - 92.
* Name of the work	: Providing concrete road in Amruthahalli SC Colony in 5th and 6th Crosses in Ward No. 07, (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/78/2016-17 Dated: 03.08.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 25.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.11.2016	25.12.2016	8.125	481.6	21.40
2	27.11.2016	25.12.2016	8.219	502.6	22.34
3	27.11.2016	25.12.2016	8.354	521.8	23.19

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* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 25.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.11.2016	25.12.2016	8.198	484.9	21.55
2	27.11.2016	25.12.2016	8.265	498.6	22.16
3	27.11.2016	25.12.2016	8.378	518.3	23.04

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Job No.: CTCE/BBMP/AM/CSR-11/203c/CUBE/2016-17 28.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: **Mr. A. Manjunath,** # 111, Pilakamma Temple Street, Amruthahalli, Sahakarnagar Post, Bangalore - 92.
* Name of the work	: Providing concrete road in Amruthahalli SC Colony in 5th and 6th Crosses in Ward No. 07, (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/78/2016-17 Dated: 03.08.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 28.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.11.2016	28.12.2016	8.098	485.9	21.60
2	30.11.2016	28.12.2016	8.137	497.8	22.12
3	30.11.2016	28.12.2016	8.240	521.4	23.17

AE-07

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 28.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.11.2016	28.12.2016	8.148	476.9	21.20
2	30.11.2016	28.12.2016	8.283	494.7	21.99
3	30.11.2016	28.12.2016	8.397	514.6	22.87

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* Sample ID	: Pavement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 28.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.11.2016	28.12.2016	8.254	482.6	21.45
2	30.11.2016	28.12.2016	8.368	499.4	22.20
3	30.11.2016	28.12.2016	8.415	518.5	23.04

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* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 28.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.11.2016	28.12.2016	8.173	486.8	21.64
2	30.11.2016	28.12.2016	8.249	504.7	22.43
3	30.11.2016	28.12.2016	8.385	518.9	23.06

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